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L26: Entry 1 of 1

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TITLE: Methods for the diagnosis of body weight disorders including obesity

DATE-ISSUED: December 30, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tartaglia; Louis Anthony	Watertown	MA	N/A	N/A

US-CL-CURRENT: 435/6; 435/4, 435/7.4, 536/23.1, 536/23.5

## CLAIMS:

What is claimed is:

1. A method for diagnosing body weight disorders, comprising detecting, in a patient sample, the level of:

(a) a C5 (SEQ ID NO.:36) or human C5 (SEQ ID NO.:38) gene transcript;

(b) a gene transcript containing a nucleotide sequence present in a cDNA within E. coli clone fahs005a (NRRL Accession No. B-21320);

(c) a gene transcript containing a nucleotide sequence which hybridizes under stringent conditions to the complement of the gene transcript of (a) or (b);

(d) a gene transcript containing a nucleotide sequence which encodes an amino acid sequence depicted in SEQ ID NO.:37, SEQ ID NO.:56 or SEQ ID NO.:51;

(e) a gene transcript containing a nucleotide sequence which encodes an amino acid sequence encoded by a cDNA within E. coli clone fahs005a (NRRL Accession No. B-21320);

(f) a gene product containing an amino acid sequence encoded by a C5 (SEQ ID NO.:36) or human C5 (SEQ ID NO.:38) gene transcript;

(g) a gene product encoded by a nucleotide sequence present in a cDNA within E. coli clone fahs005a (NRRL Accession No. B-21320); or

(h) a gene product containing an amino acid sequence depicted in SEQ ID NO.:37, SEQ ID NO.:56 or SEQ ID NO.:51, so that if a differential level in the patient sample is detected relative to a corresponding non-body weight disorder sample, a body weight disorder is diagnosed.

2. The method of claim 1 in which the level is induced in

genetically obese individuals.

3. The method of claim 1 in which the level is repressed in genetically obese individuals.

4. The method of claim 1 in which the level is induced by fasting.

5. The method of claim 1 in which the level is repressed by fasting.

6. The method of claim 1 in which the level is repressed by refeeding of a fasted individual.

7. The method of claim 1 in which the level is induced by refeeding of a fasted individual.

8. The method of claim 1 in which the level is induced in underweight individuals.

9. The method of claim 1 in which the level is repressed in underweight individuals.

10. The method of claim 1 in which the level is induced in overweight individuals.

11. The method of claim 1 in which the level is repressed in overweight individuals.